

Appl. No. : 09/912,020
Filed : July 23, 2001

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

Claim 1 (Currently Amended): A method of inhibiting cellular proliferation comprising inhibiting the activity or reducing the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or inhibiting the activity or reducing the amount of a nucleic acid encoding said polypeptide, wherein inhibiting the activity or reducing the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or inhibiting the activity or reducing the amount of a nucleic acid encoding said polypeptide inhibits cellular proliferation.

Claim 2 (Original): The method of Claim 1, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella choleraesuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 3 (Original): The method of Claim 1, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 4 (Currently Amended): A method for inhibiting cellular proliferation comprising ~~introducing~~ contacting a cell with a compound which inhibits the activity or reduces the amount of a polypeptide comprising the amino acid sequence consisting of SEQ ID NO: 325 or which inhibits the activity or reduces the amount of a nucleic acid comprising a nucleotide sequence encoding said polypeptide ~~into a cell.~~ , wherein contacting said cell with said compound inhibits cellular proliferation.

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Claim 5 (Original): The method of Claim 4, wherein said compound is an antisense nucleic acid.

Claim 6 (Previously Amended): The method of Claim 5, wherein said compound is an antisense nucleic acid comprising a sequence selected from the group consisting of SEQ ID NOs: 459 and 460, or a proliferation-inhibiting portion thereof.

Claim 7 (Previously Amended): The method of Claim 6, wherein said proliferation inhibiting portion of one of SEQ ID NOs: 459 or 460 is a fragment comprising at least 10, at least 20, at least 25, at least 30, at least 50 or more than 50 consecutive nucleotides of one of SEQ ID NOs: 459 or 460.

Claim 8 (Original): The method of Claim 4, wherein said compound is a triple helix oligonucleotide.

Claim 9 (Original): The method of Claim 4, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella choleraesuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 10 (Original): The method of Claim 4, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 11 (Currently Amended): A method for inhibiting cellular proliferation comprising introducing contacting a cell with a compound with activity against a gene corresponding to ~~one of~~ SEQ ID NO: 165 or with activity against the product of said gene ~~into a~~ population of cells expressing a gene, wherein contacting said cell with said compound inhibits cellular proliferation.


Claim 12 (Original): The method of Claim 11, wherein said compound is an antisense nucleic acid.

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Claim 13 (Previously Amended): The method of Claim 12, wherein said compound is an antisense oligonucleotide comprising a sequence selected from the group consisting of SEQ ID NOs: 459 and 460, or a proliferation-inhibiting portion thereof.

Claim 14 (Previously Amended): The method of Claim 13, wherein said proliferation inhibiting portion of one of SEQ ID NOs: 459 or 460 is a fragment comprising at least 10, at least 20, at least 25, at least 30, at least 50 or more than 50 consecutive nucleotides of one of SEQ ID NOs: 459 or 460.

Claim 15 (Original): The method of Claim 11, wherein said compound is a triple helix oligonucleotide.

 **Claim 16 (Original):** The method of Claim 11, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Enterococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Saccharomyces cerevisiae*, *Candida albicans*, *Cryptococcus neoformans*, *Aspergillus fumigatus*, *Klebsiella pneumoniae*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella choleraesuis*, *Staphylococcus epidermidis*, *Mycobacterium tuberculosis*, *Mycobacterium leprae*, *Treponema pallidum*, *Bacillus anthracis*, *Yersinia pestis*, *Clostridium botulinum*, *Campylobacter jejuni*, *Chlamydia trachomatis*, *Chlamydia pneumoniae* or any species falling within the genera of any of the above species.

Claim 17 (Original): The method of Claim 11, wherein the cell in which proliferation is inhibited is *Escherichia coli*.

Claim 18 (Previously Added): The method of Claim 1, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella choleraesuis*, *Klebsiella pneumoniae*, *Yersinia pestis*, and *Campylobacter jejuni* or any species falling within the genera of any of the above species.

Claim 19 (Previously Added): The method of Claim 4, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Salmonella typhi*, *Salmonella paratyphi*,

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Salmonella cholerasuis, *Klebsiella pneumoniae*, *Yersinia pestis*, and *Campylobacter jejuni* or any species falling within the genera of any of the above species.

Claim 20 (Previously Added): The method of Claim 11, wherein the cell in which proliferation is inhibited is selected from the group consisting of *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterobacter cloacae*, *Helicobacter pylori*, *Neisseria gonorrhoeae*, *Haemophilus influenzae*, *Salmonella typhimurium*, *Salmonella typhi*, *Salmonella paratyphi*, *Salmonella cholerasuis*, *Klebsiella pneumoniae*, *Yersinia pestis*, and *Campylobacter jejuni* or any species falling within the genera of any of the above species.
